N. TWEET.

BUTTON.

APPLICATION FILED DEC. 23, 1908.

946,742. Patented Jan. 18, 1910.

Fig. 1.

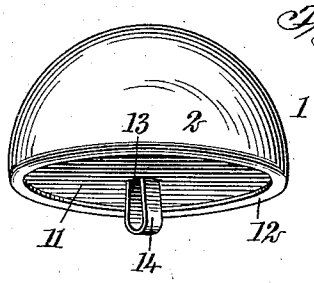


Fig. 2.

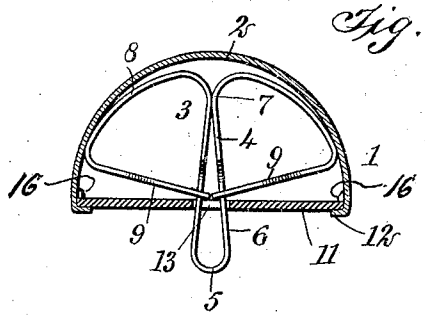


Fig. 3.

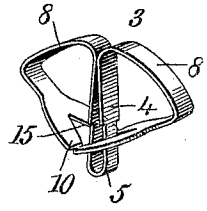
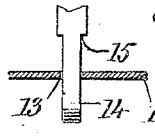


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

NELS TWEET, OF HILLSBORO, NORTH DAKOTA, ASSIGNOR OF ONE-HALF TO JORGEN HOWARD, OF HILLSBORO, NORTH DAKOTA.

BUTTON.

946,742. Specification of Letters Patent. Patented Jan. 18, 1910.

Application filed December 23, 1908. Serial No. 468,925.

To all whom it may concern:

Be it known that I, NELS TWEET, a subject of the King of Norway, and a resident of Hillsboro, in the county of Traill and State of North Dakota, have invented a new and Improved Button, of which the following is a full, clear, and exact description.

This invention relates to buttons, and especially to the means of attaching them to garments and the like.

The object of the invention is to produce a button having a resilient or extensible shank of improved construction, which will yield or give under strain so as to relieve the strain to which the attaching stitches or cord is subjected.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective of a button constructed according to my invention; Fig. 2 is a vertical section through the button shown in Fig. 1; Fig. 3 is a perspective showing the spring and shank removed from the button; and Fig. 4 is a section taken through the back-plate of the button at the point where the shank projects through it, and showing a portion of the shank.

Referring more particularly to the parts, 1 represents the body of the button which may comprise a hemispherical shell 2. Within this shell there is provided a spring 3 formed of a strap or band of light resilient metal. This band is folded upon itself so as to form a tongue 4, the end of the tongue being formed into a bight or loop 5 so that the bars 6 which form the tongue diverge toward the bight 5, as indicated in Fig. 2. These bars 6 which form the tongue abut against each other at the point 7 which constitutes the root of the tongue, and from this point the ends of the band are bent outwardly so as to form curved bows 8 which lie against the inner side of the shell 2, as indicated. At the ends of the bows 8, the material which forms the spring is straightened and turned inwardly so as to form bifurcated toes 9. Between the forks 10 of the toes, openings are formed through which the tongue 4 passes, as indicated.

The body of the button includes a back-plate or disk 11 which is of circular form, and this disk closes the lower side of the shell. It is held against outward movement by a flange 12 which is formed around the lower edge of the shell, as indicated. This disk 11 is provided with a central opening 13 through which the tongue 4 projects. The outer portion of the tongue 4 is of reduced width so as to form a shank 14 projecting through the opening 13. On account of the reduced width of the shank, shoulders 15 are formed at the root of the shank which limit the outward movement of the shank when a pull is exerted at the bight 5, at which point the button is attached to the garment.

In assembling the parts the shank 14 will be forced through the opening 13 and the spring 3 will then be introduced into the interior of the shell so that the disk 11 closes the lower end of the shell seating against small integral lugs or projections 16 on the interior. After the disk is brought into position in this manner, the flange 12 retains the disk in position. By reason of the resiliency of the bows 8, the toes 9 press against the inner side of the plate and hold the plate in position at the same time they tend to pull the shank inwardly into the interior of the button. In this way when the button is in use, if a strain comes upon it the shank extends itself so as to relieve the strain.

Having thus described my invention, I claim as new and desire to secure by Letters Patent,—

1. A button having a hollow body with a retaining flange, said body including a plate seating on said flange having an opening therethrough, and a resilient member having resilient bows disposed within said body to thrust against the inner side of said body, and having extensions to press said plate against said flange and having a shank projecting through said opening.

2. A button having a body formed of a substantially hemispherical shell and a back-plate closing the opening of said shell, said back-plate having an opening therethrough, and a resilient member disposed within said shell having bows engaging said shell near the edge thereof and having extensions pro-

jecting inwardly and downwardly to press against the inner face of said plate, said shell having means for retaining said plate against said pressure, said resilient member further having a tongue formed of bars connected by a bight and passing through said opening, said bars diverging in an outward direction.

3. A button comprising a hemispherical shell and a plate closing the same, said plate having an opening therethrough, said shell having means for retaining said plate, and a spring within said shell presenting oppositely disposed bows engaging the inner side of said shell having a tongue formed of a double bar projecting through said bows and outside said shell, having toes therebeyond extending inwardly and having bifurcated extremities presenting forks between which said tongue passes.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NELS TWEET.

Witnesses:
TOM S. FARR,
FRED L. GOODMAN.